

HV-X 120 - 45000/18



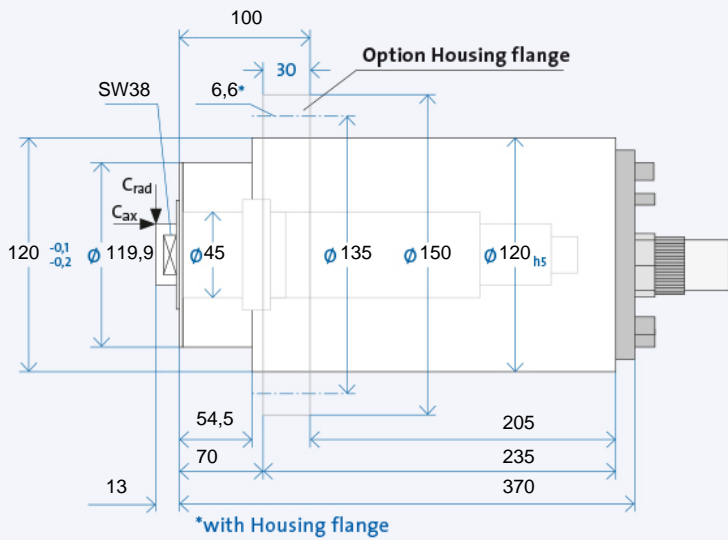
Technical data

∅ Spindle housing	A	[mm]
Speed max.	n_{max}	[min ⁻¹]
Bearing; front	W_1	[mm]
Tool interface		
∅ Flat layout	W	[mm]
Static rigidity		
axial	C_{ax}	[N/μm]
radial	C_{rad}	[N/μm]
Motor realization		
Frequency max.	f_{max}	[Hz]
Converter voltage ¹⁾		[V]
Power	P_{S1}	[kW]
Torque	M_{S1}	[Nm]
... at speed	n	[min ⁻¹]
Current	I_{S1}	[A]
Power	$P_{S6-60\%}$	[kW]
Torque	$M_{S6-60\%}$	[Nm]
... at speed	n	[min ⁻¹]
Current	$I_{S6-60\%}$	[A]

HV-X 120 - 45000/18

120		
45000		
45		
D 28/43		
43		
91		
125		
200 V	350 V	460 V
1500		
200	350	460
15		
4,77		
30000		
72	41	31
18		
5,73		
30000		
89	51	39

TECHNICAL DATA



Electrical connection

Plug type	
Straight plug connection	
Coil plug connector	
Fixed cable XXm	

Coolant feed through the shaft

Low pressure (du)	
High-pressure (dh)	

Sensors

Rotary encoder	
Speed sensor	

Housing

Cylindrical housing	
Cylindrical housing with flange	
Block housing	
Air-tight seal	

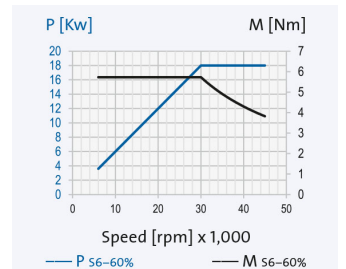
¹⁾ Minimum required starting voltage for the frequency converter.

+ Standard
o Optional
x Upon request

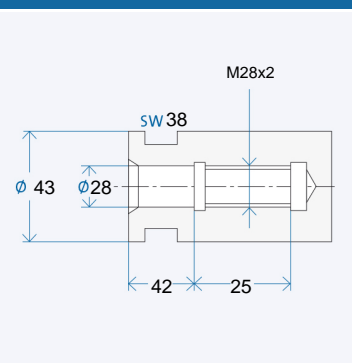
Ordering information:

HV-X 120 - 45000/18
R is for clockwise, L for counter-clockwise
+ Desired options

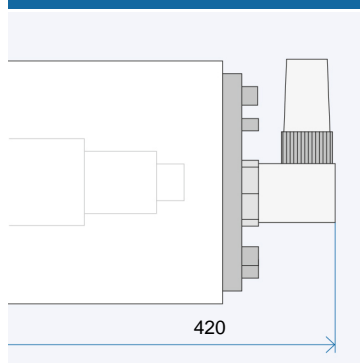
MAC	GA	GA
+	+	+
o	o	o
o	o	o
	o	
	+	
	+	
	o	
	x	
	o	



FIT HOLES WITH FLAT LAYOUT



ANGLED PLUG OPTION



The data currently provided on the internet apply. Further and detailed information is provided in the GMN 2508 catalogue.

HV-X 120 - 45000/18

Grinding quills

GMN produces grinding quills with high round and flat face accuracy for all available GMN grinding mandrel receivers.

FIG. 1: CEMENTED (KI)

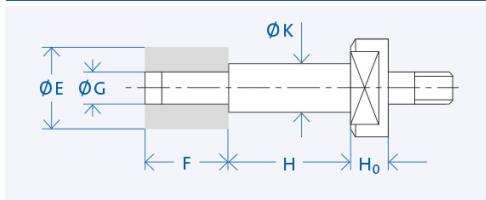


FIG. 2: WITH ADJUSTMENT SCREW (PS)

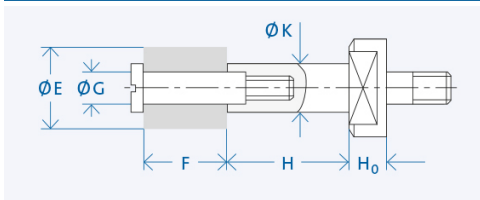
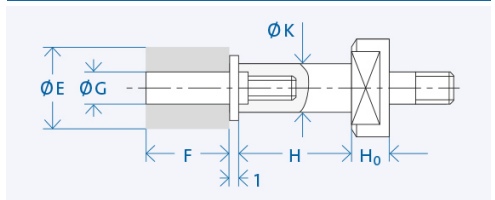
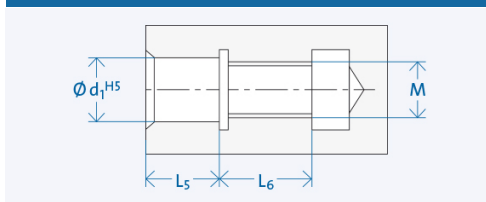


FIG. 3: FOR GRINDING WHEELS ON THREADED PIN (PL)*



FITTING HOLE FOR FIG. 2 AND 3



d ₁	M	L ₅	L ₆
4	M3	5	8
6	M5	7	11
8	M6	9	12
10	M8	12	14
13	M12	13	17

Interface	K [mm]	H [mm]	Wheel E x F [mm]	G [mm]	Grinding wheel attachment	H ₀ [mm]
D 28/43	16	40	25 x 25	10	PS/PL	12
	20	50	32 x 25	13	PS/PL	
	32	63	50 x 40	20	MU	

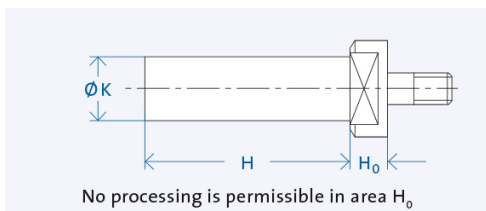
Ordering information:

[Mandrel Ø K] x [Mandrel length H] - [Grinding wheels ø G] x [Grinding wheel width F] [Interface] [Mandrel fixation]

Example: Grinding quill 16 x 40 - 10 x 25 D16/28 PS

Semi-finished goods

GMN semi-finished products allow the individual adaptation of the tool interface for any connections.



d ₁	K [mm]	H [mm]
D 28/43	48	240

Ordering information: »Semi-finished goods« [Shaft Ø K] x [Shaft length H] [Interface]

Example: Semi-finished goods 34 x 180 D16/33

Lubrication system



The electronically controlled PRELUB lubrication unit is optimally adapted to the oil-air lubricated GMN spindles and guarantees a long service life.

Cooling system



GMN cooling units ensure precisely adjustable temperature and quantity delivery of the coolant and achieve consistently low operating temperatures.

Cable and plug



Ready-made cables with B048, B049, GA, MAC, D500 and STK plugs are available on request. For the spindle/converter connection, GMN supplies UL/CSA approved electrical cables suitable for use in drag chains.